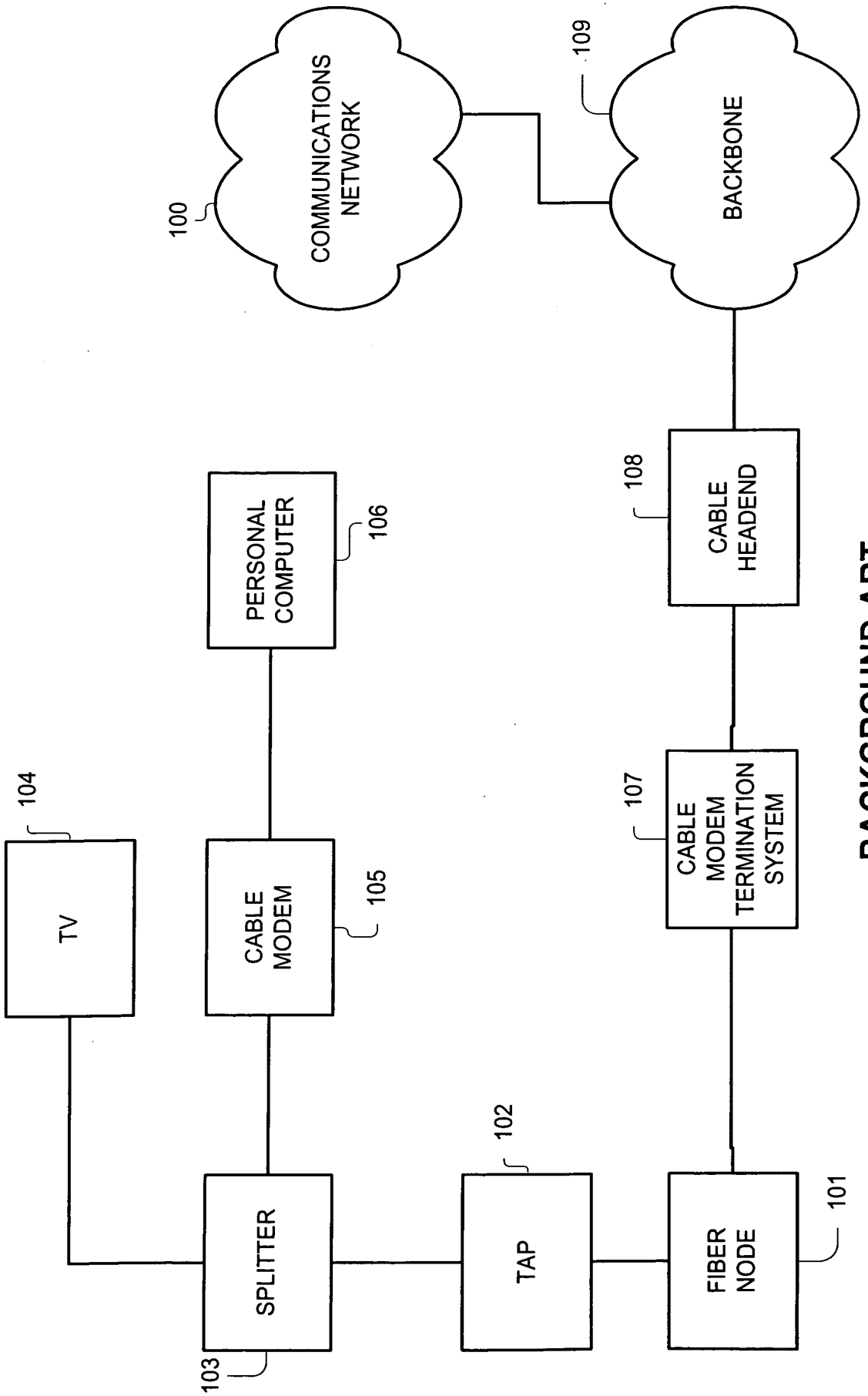
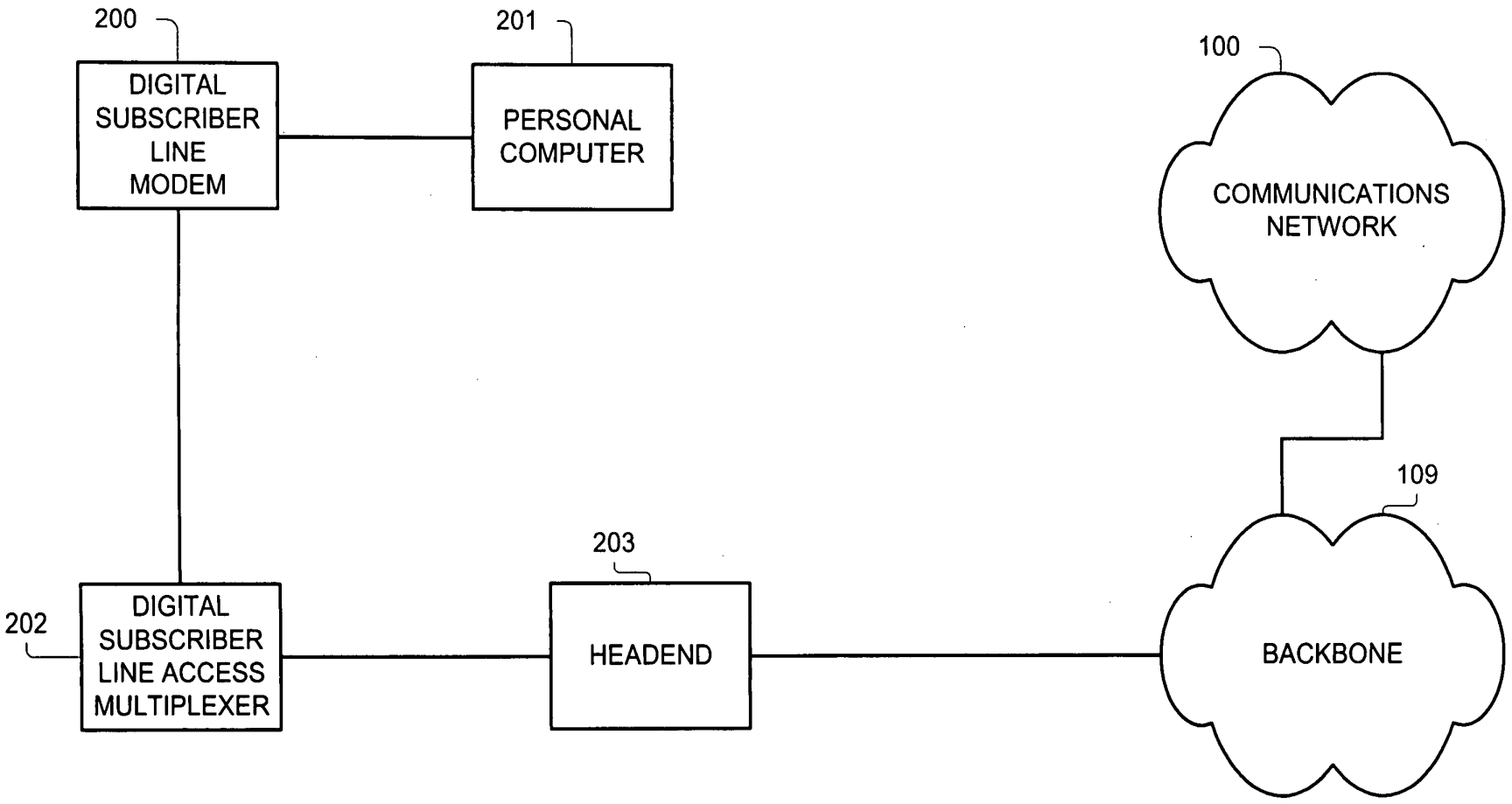


FIGURE 1

BACKGROUND ART

T09T20" 690h8260

FIGURE 2



BACKGROUND ART

OBLON, SPIVAK, ET AL
DOCKET #: 202586US-8
INV: Mark A. PODRACKY
SHEET 2 OF 15

FIGURE 3

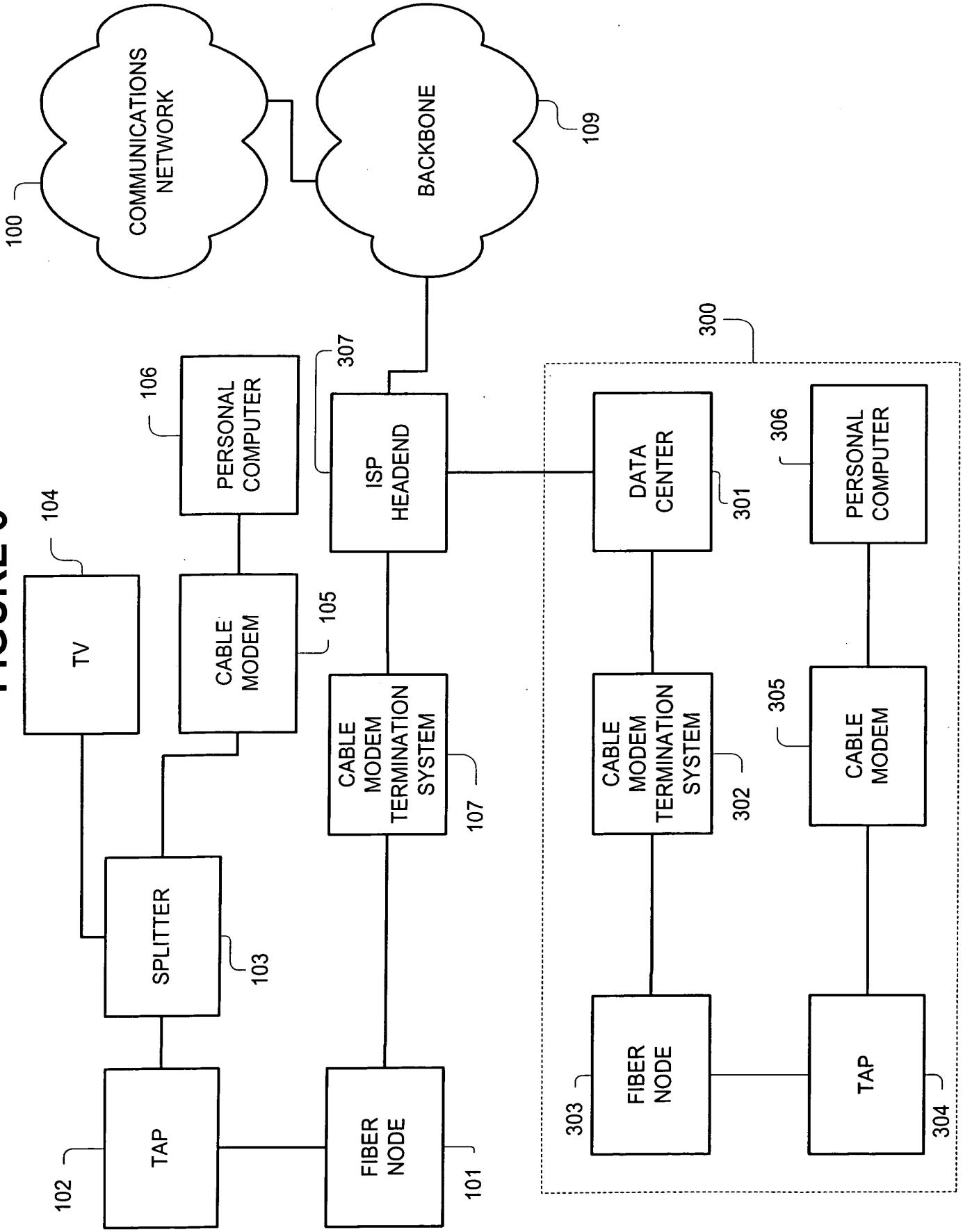

COMMUNICATIONS NETWORK
100
BACKBONE
109
300
PERSONAL COMPUTER
106
307
ISP HEADEND
DATA CENTER
301
306
PERSONAL COMPUTER
104
TV
CABLE MODEM
105
CABLE MODEM TERMINATION SYSTEM
107
CABLE MODEM TERMINATION SYSTEM
302
305
CABLE MODEM
SPLITTER
103
TAP
102
FIBER NODE
101
FIBER NODE
303
TAP
304

FIGURE 4

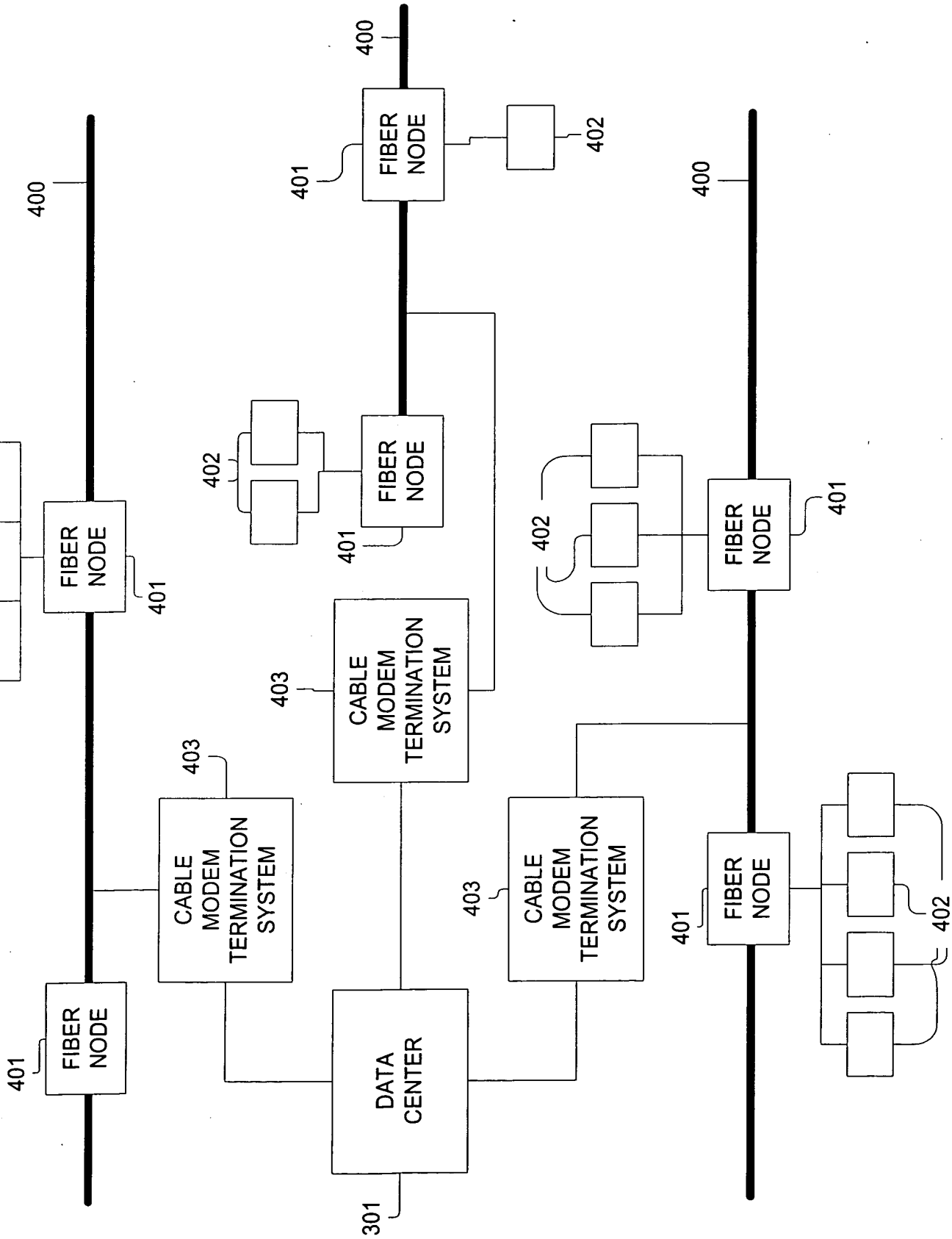

400
FIBER NODE
401
402
CABLE MODEM TERMINATION SYSTEM
403
DATA CENTER
301

FIGURE 5

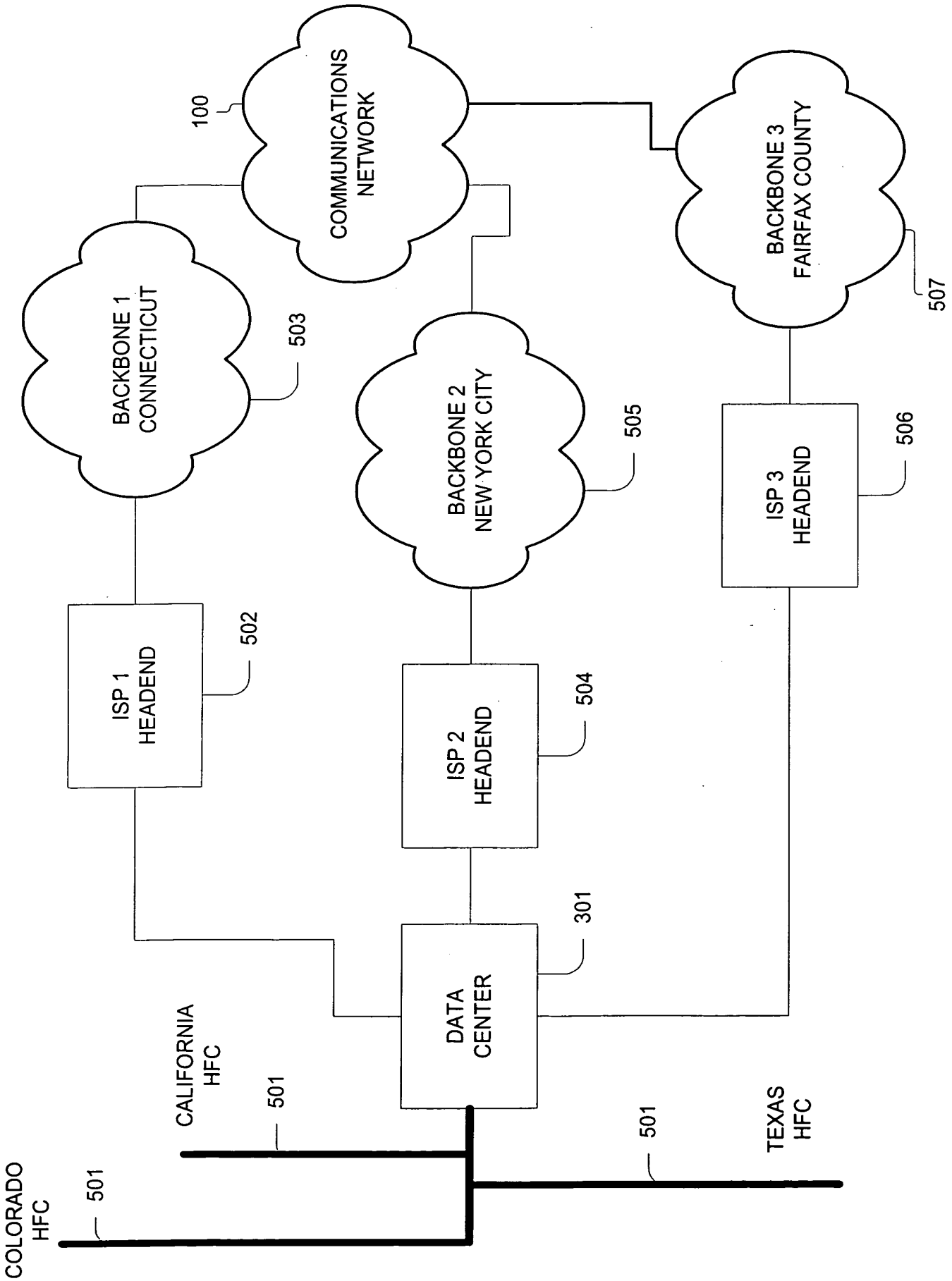

COMMUNICATIONS NETWORK
100
BACKBONE 1 CONNECTICUT
503
BACKBONE 2 NEW YORK CITY
505
BACKBONE 3 FAIRFAX COUNTY
507
ISP 1 HEADEND
502
ISP 2 HEADEND
504
ISP 3 HEADEND
506
DATA CENTER
301
CALIFORNIA HFC
501
COLORADO HFC
501
TEXAS HFC
501

FIGURE 6

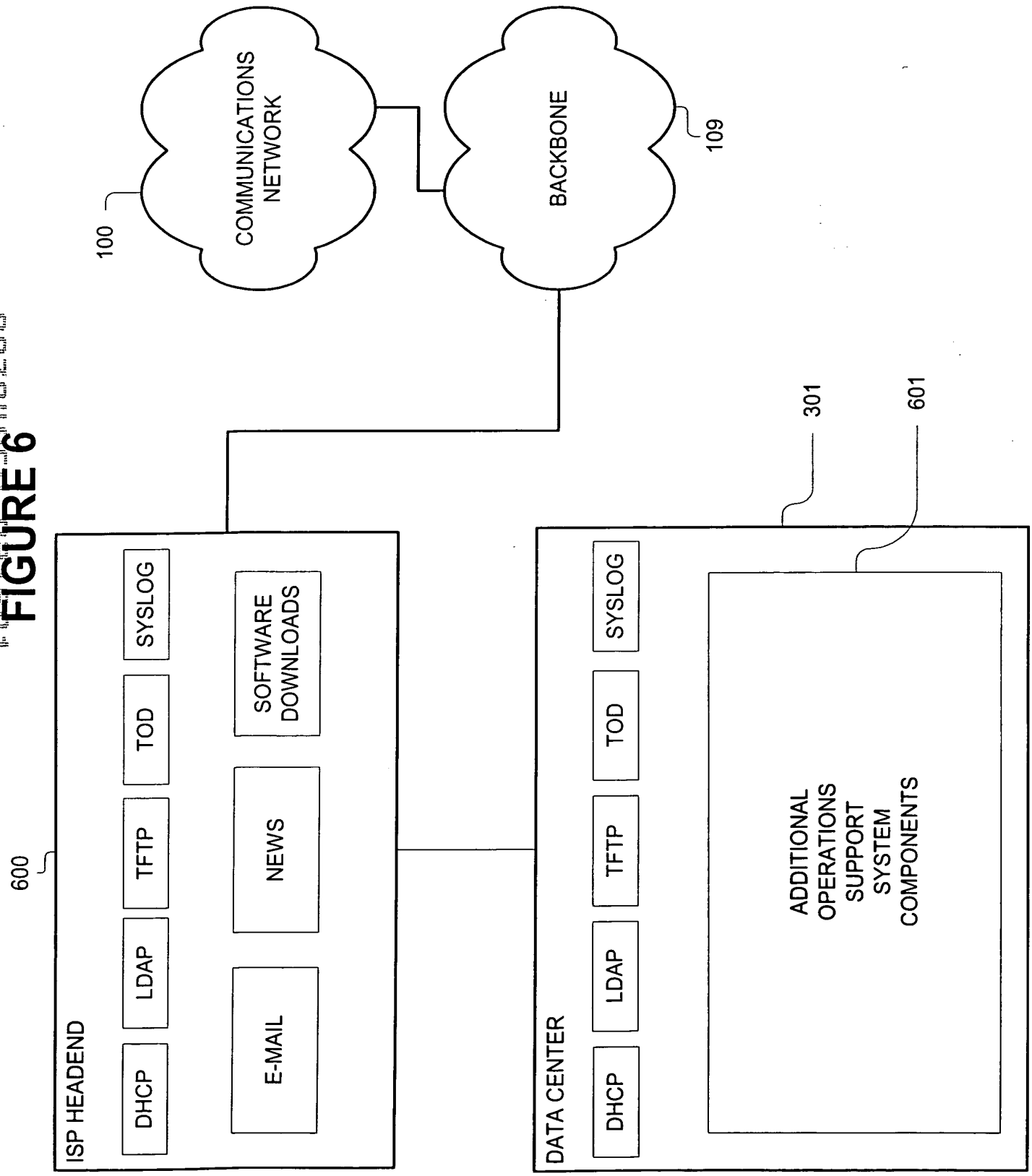

COMMUNICATIONS NETWORK
100
BACKBONE
109
301
601
600
ISP HEADEND
DHCP
LDAP
TFTP
TOD
SYSLOG
E-MAIL
NEWS
SOFTWARE DOWNLOADS
DATA CENTER
DHCP
LDAP
TFTP
TOD
SYSLOG
ADDITIONAL OPERATIONS SUPPORT SYSTEM COMPONENTS

FIGURE 7

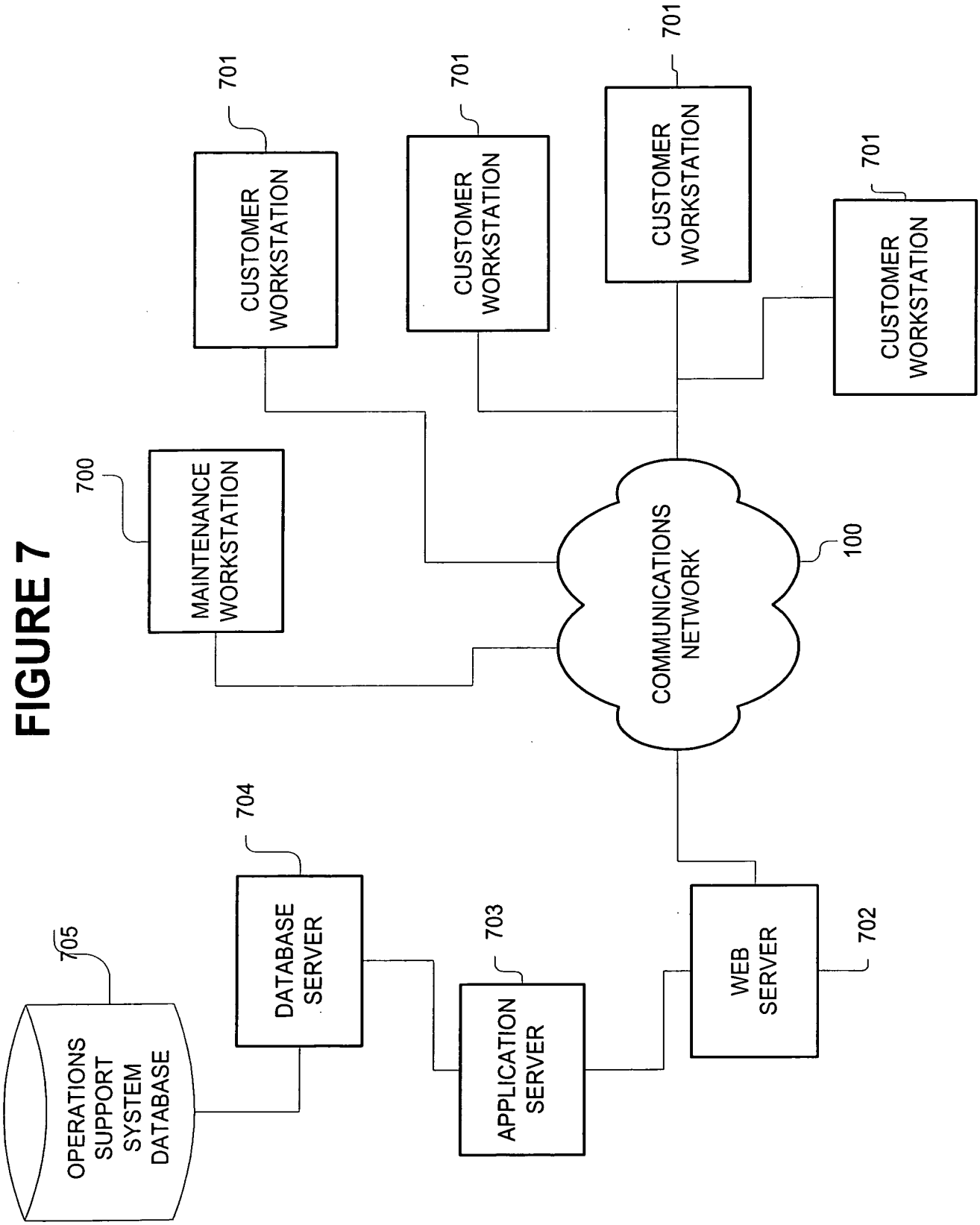
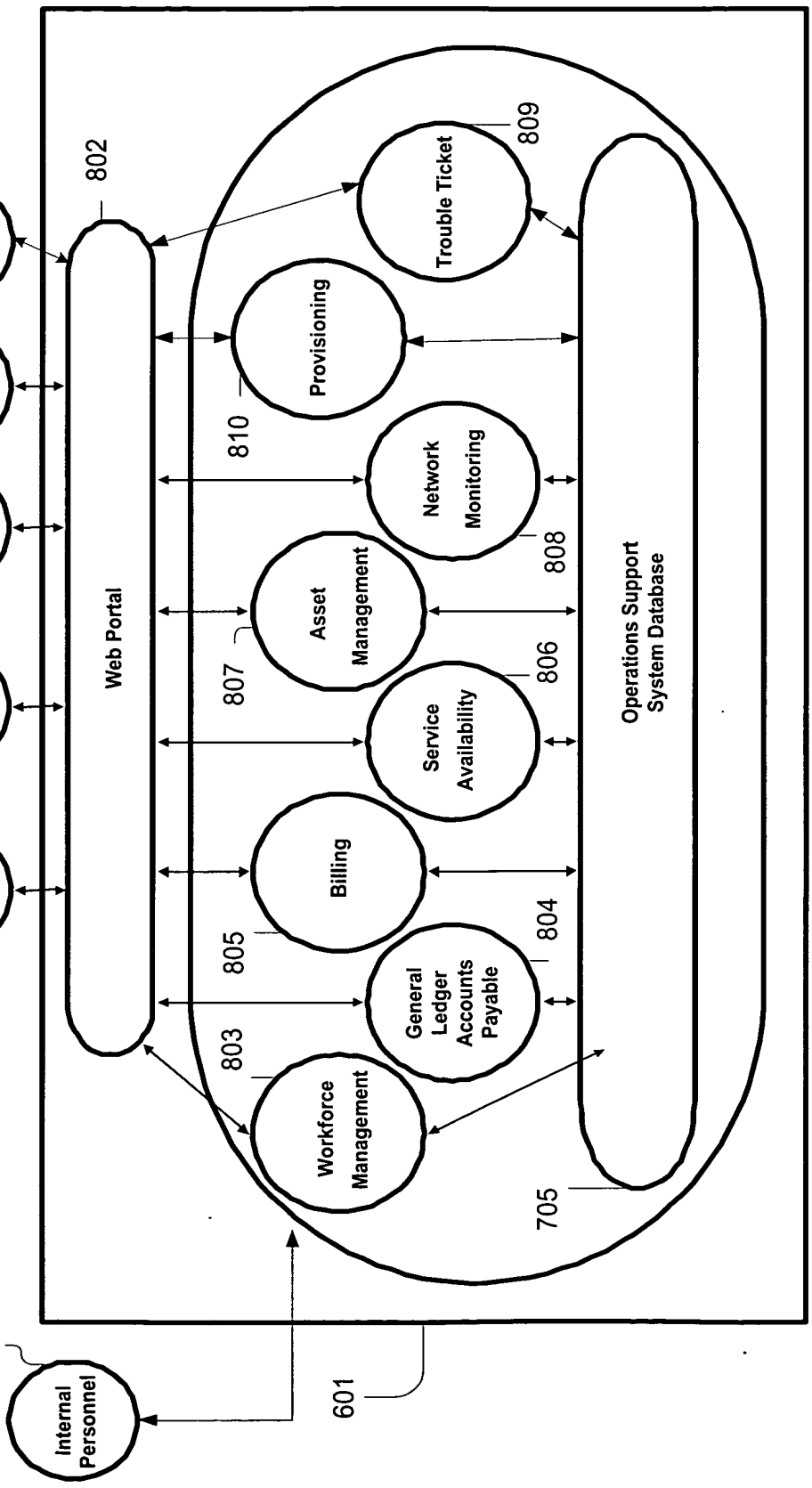

701
CUSTOMER WORKSTATION
701
CUSTOMER WORKSTATION
701
CUSTOMER WORKSTATION
701
CUSTOMER WORKSTATION
700
MAINTENANCE WORKSTATION
COMMUNICATIONS NETWORK
100
704
DATABASE SERVER
703
APPLICATION SERVER
WEB SERVER
702
705
OPERATIONS SUPPORT SYSTEM DATABASE

FIGURE 8


800
Internal Personnel
601
Web Portal
802
800
Internal Personnel
811
End-User
801
Customer
801
Customer
801
Customer
Workforce Management
803
General Ledger Accounts Payable
804
Billing
805
Service Availability
806
Asset Management
807
Network Monitoring
808
Provisioning
810
Trouble Ticket
809
Operations Support System Database
705

T09T20"690h8260

FIGURE 9

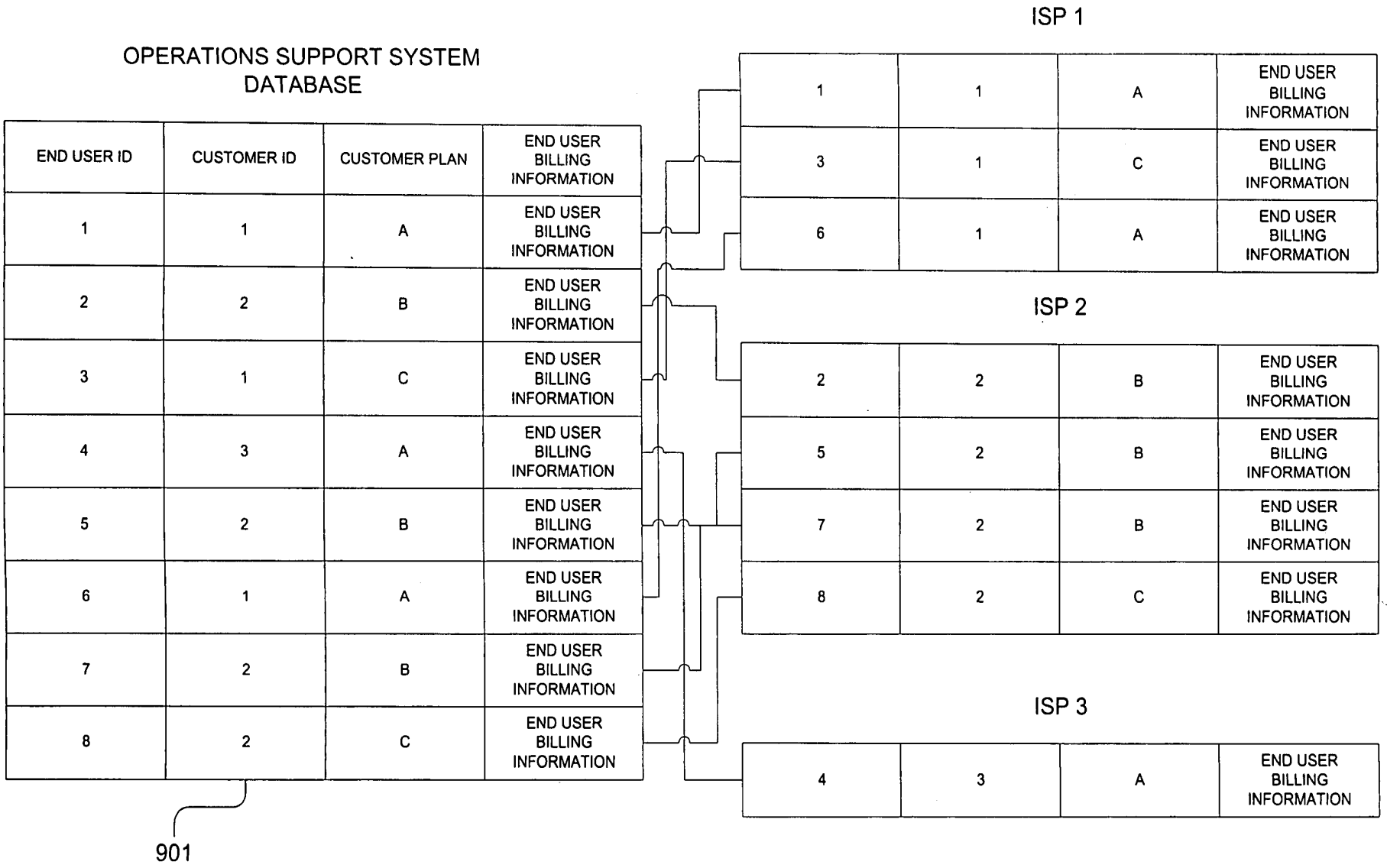


FIGURE 10

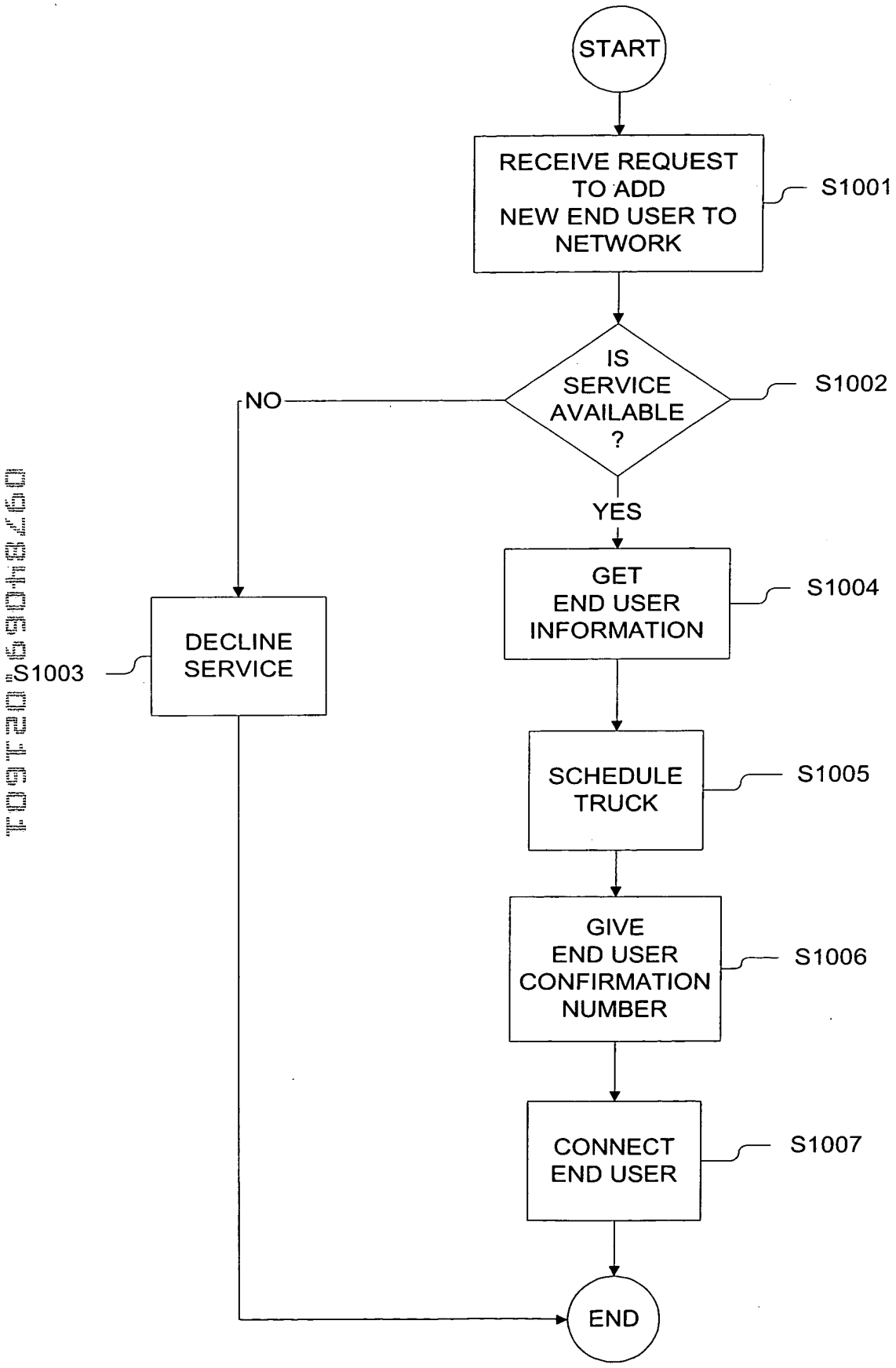

START
RECEIVE REQUEST TO ADD NEW END USER TO NETWORK
S1001
IS SERVICE AVAILABLE ?
S1002
NO
YES
DECLINE SERVICE
S1003
GET END USER INFORMATION
S1004
SCHEDULE TRUCK
S1005
GIVE END USER CONFIRMATION NUMBER
S1006
CONNECT END USER
S1007
END

FIGURE 11

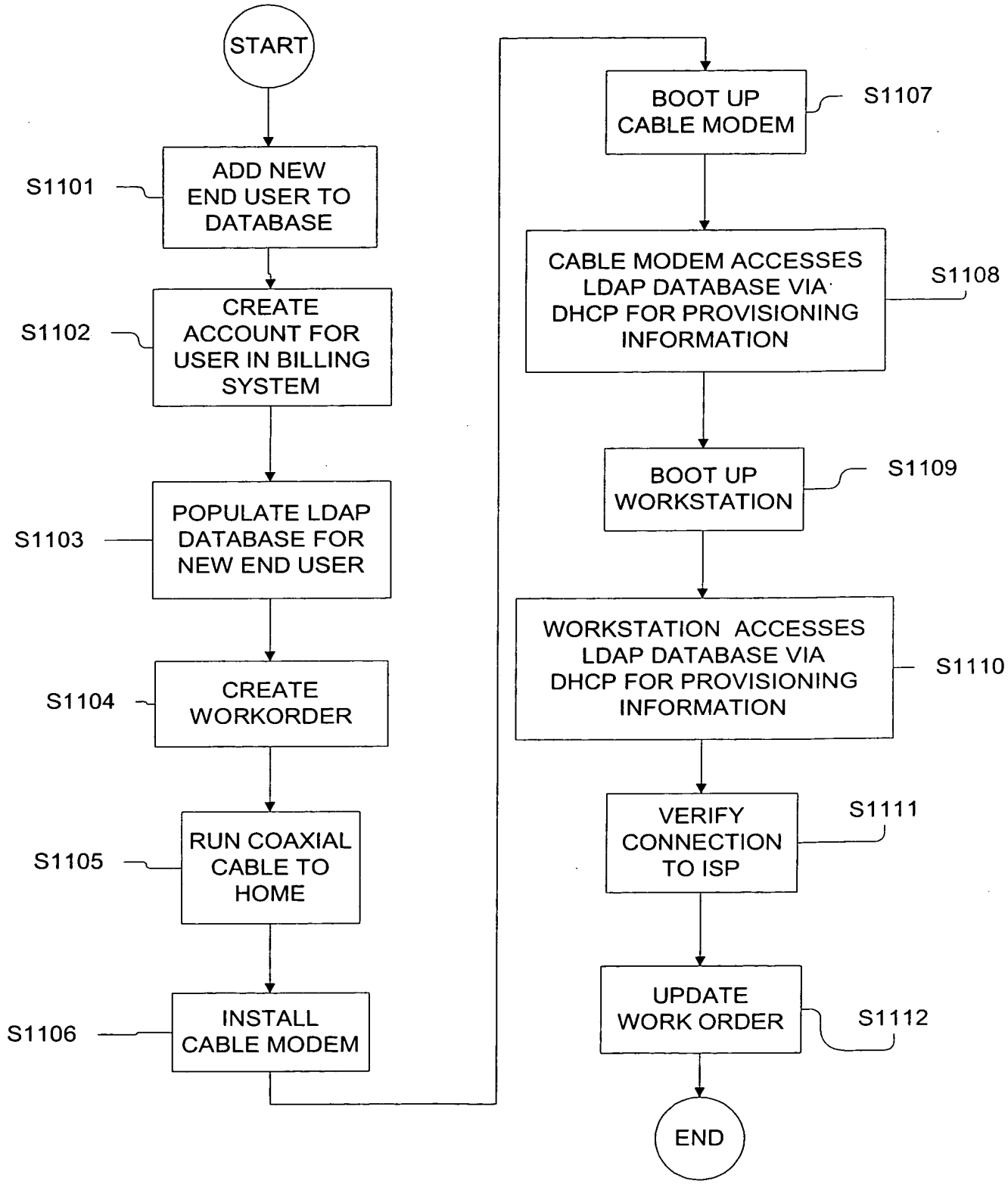


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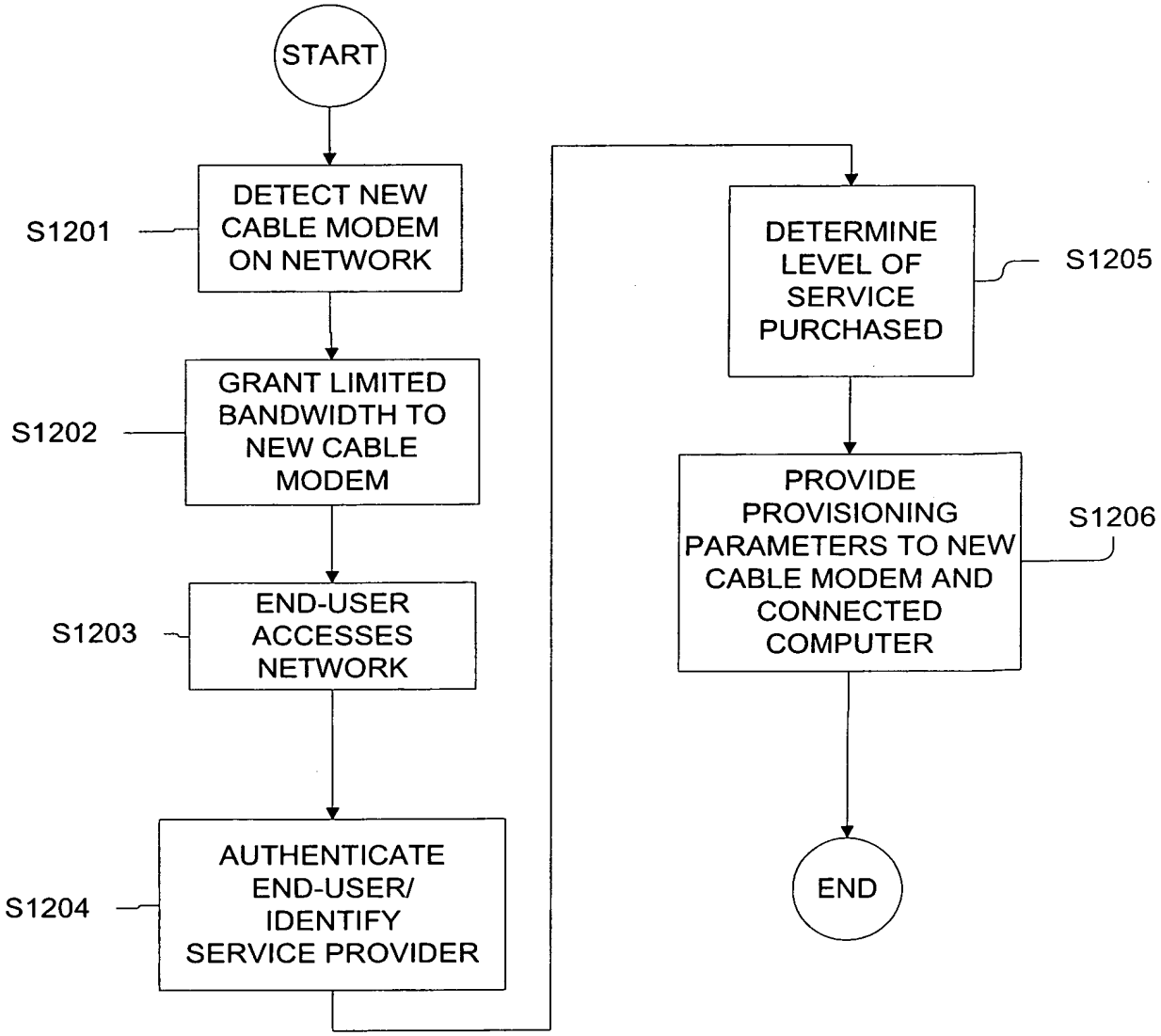
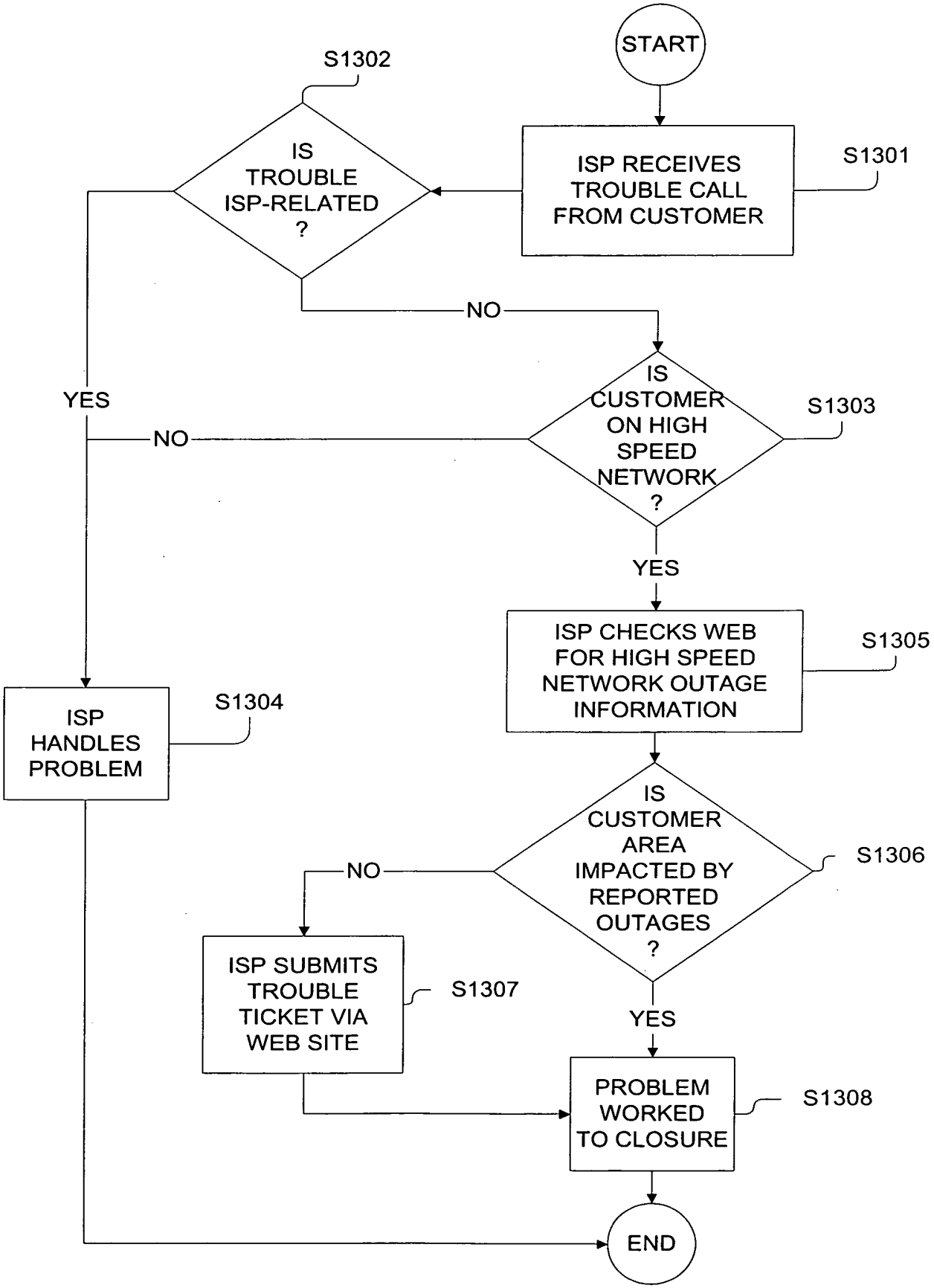
FIGURE 12



Docket: 202586US-8

FIGURE 13



Docket: 202586US-02

FIGURE 14

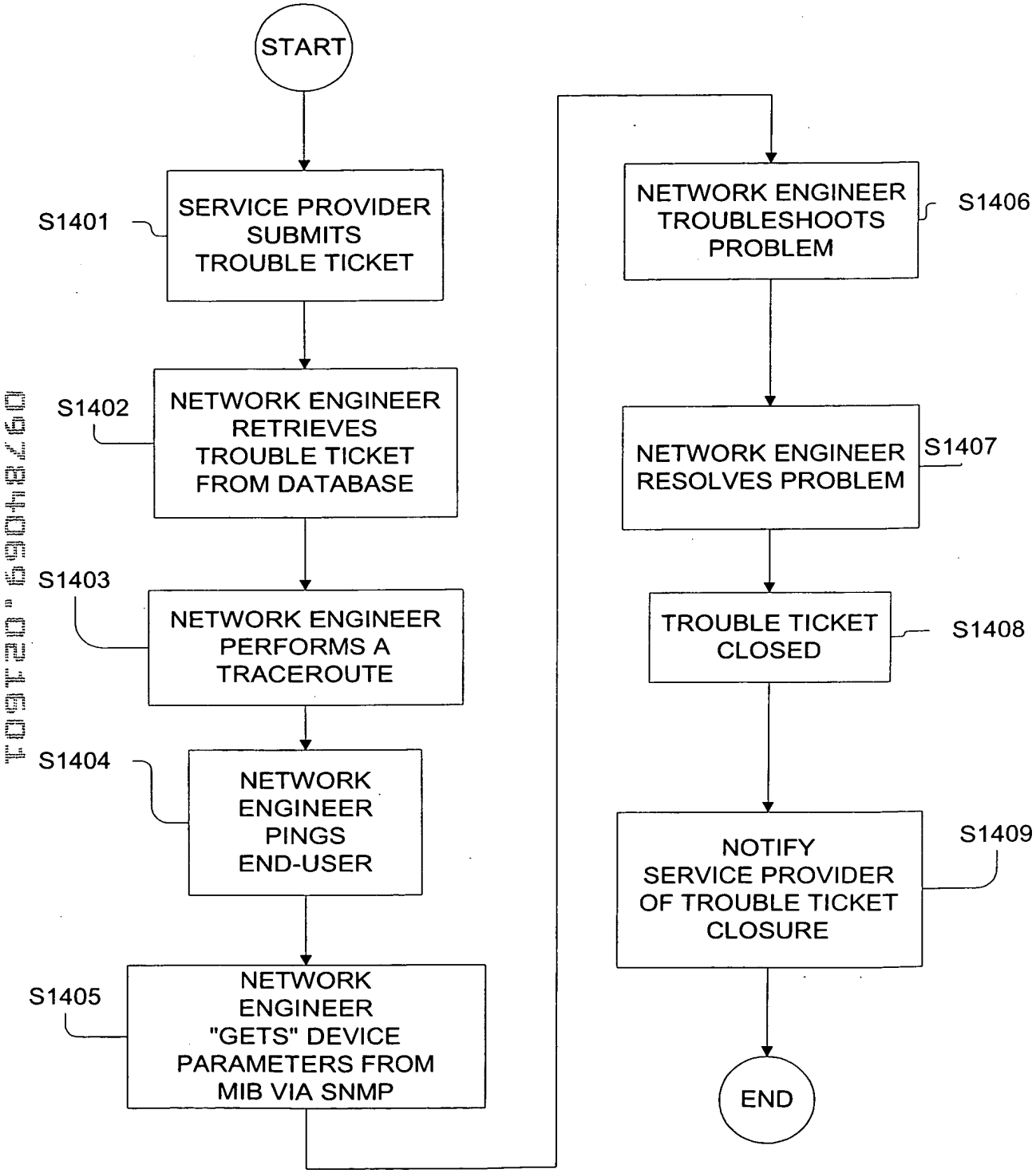


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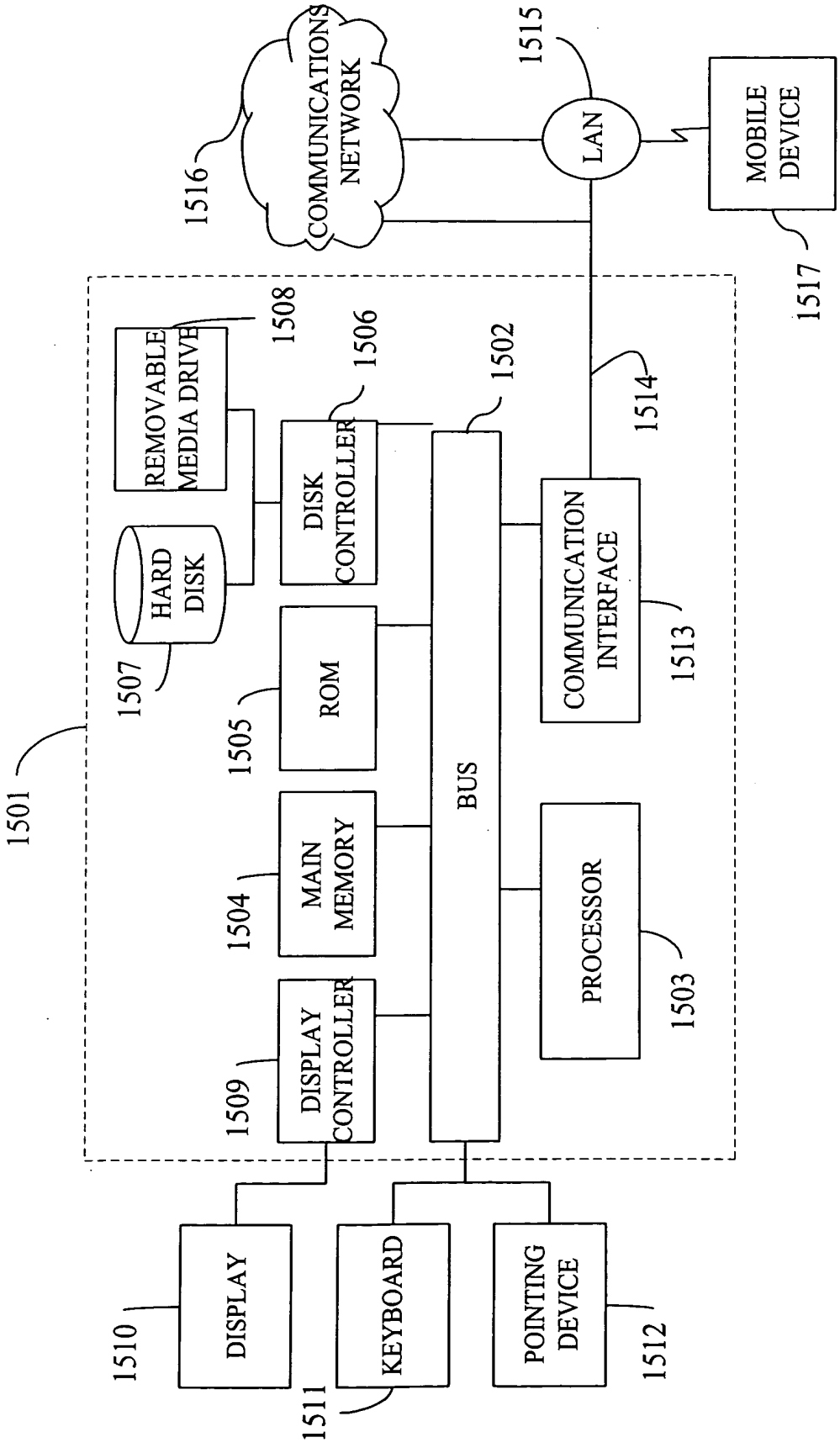
FIGURE 15


1501
1502
1503
1504
1505
1506
1507
1508
1509
1510
1511
1512
1513
1514
1515
1516
1517
BUS
PROCESSOR
MAIN MEMORY
ROM
DISK CONTROLLER
HARD DISK
REMOVABLE MEDIA DRIVE
DISPLAY CONTROLLER
COMMUNICATION INTERFACE
DISPLAY
KEYBOARD
POINTING DEVICE
LAN
COMMUNICATIONS NETWORK
MOBILE DEVICE